**Screen Shots - BONUS Included (2016, 2015, 2014)**

A picture containing graphical user interface

Description automatically generated

A picture containing calendar

Description automatically generated

Graphical user interface, application

Description automatically generated

**Screen Shots - Main Assignment Only (2016, 2015, 2014)**

Graphical user interface, application, table

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Graphical user interface, application

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Graphical user interface, table

Description automatically generated

**VBS Code (if needed)**

Sub RunCode()

'Inlcudes Code Bonus Section

Dim WS\_Count As Integer

Dim I As Integer

Dim J As Long

Dim Tickers\_in\_ws As Integer

' Set a variable for specifying the column/row of interest

Dim column As Integer

Dim lastrow As Double

Dim lastcolumn As Double

Dim Total\_volume As Double

Dim Initial\_bonus\_counter As Integer 'For Bonus Section

Dim Greatest\_increase As Double 'For Bonus Section

Dim Greatest\_decrease As Double 'For Bonus Section

Dim Greatest\_total\_volume As Double 'For Bonus Section

'Debug.Print "Start of Program", Format(Now, "mm/dd/yyyy HH:mm:ss")

Tickers\_in\_ws = 2 'initial row where store Ticker data in a worksheet

Initial\_bonus\_counter = 0 'intialize counter for Bounus section

' Set WS\_Count equal to the number of worksheets in the active

' workbook.

WS\_Count = ActiveWorkbook.Worksheets.Count

For I = 1 To WS\_Count

'For I = 1 To 1

'loop for worksheets

'Debug.Print "ActiveWorkbook.Worksheets(i).Name is ", ActiveWorkbook.Worksheets(I).Name

column = 1

Total\_volume = 0

Opening\_price = ActiveWorkbook.Worksheets(I).Cells(2, 3).Value

Closing\_price = 0

lastrow = ActiveWorkbook.Worksheets(I).Cells(Rows.Count, 1).End(xlUp).Row

'Debug.Print "lastrow=", lastrow

'Set-up Column Headers

ActiveWorkbook.Worksheets(I).Cells(1, 9).Value = "Ticker"

ActiveWorkbook.Worksheets(I).Cells(1, 10).Value = "Yearly Change"

ActiveWorkbook.Worksheets(I).Cells(1, 11).Value = "Percent Change"

ActiveWorkbook.Worksheets(I).Cells(1, 12).Value = "Total Stock Volume"

ActiveWorkbook.Worksheets(I).Cells(1, 16).Value = "Ticker" 'For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(1, 17).Value = "Value" 'For Bonus Section

'Loop through rows in the column

'For J = 2 To 1049

For J = 2 To lastrow

Total\_volume = Total\_volume + ActiveWorkbook.Worksheets(I).Cells(J, 7).Value

' Searches for when the value of the next cell is different than that of the current cell

If ActiveWorkbook.Worksheets(I).Cells(J + 1, column).Value <> ActiveWorkbook.Worksheets(I).Cells(J, column).Value Then

Closing\_price = ActiveWorkbook.Worksheets(I).Cells(J, 6).Value 'Set closing price

Yearly\_change = Closing\_price - Opening\_price

If Yearly\_change = 0 Then 'Handles when no change (e.g. Test data had zeros for ticker PLNT)

Percent\_change = 0

Else

If Opening\_price = 0 Then

Percent\_change = 0

Else

Percent\_change = Yearly\_change / Opening\_price

End If

End If

'Debug.Print ActiveWorkbook.Worksheets(I).Cells(J, 1).Value, Yearly\_change, Percent\_change, Total\_volume

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 9).Value = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value 'Store Ticker

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 10).Value = Yearly\_change 'Store Yearly Change

If Yearly\_change < 0 Then

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 10).Interior.ColorIndex = 3

Else

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 10).Interior.ColorIndex = 4

End If

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value = Percent\_change 'Store Percent Change

ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 12).Value = Total\_volume 'Store Total Stock Volume

If Initial\_bonus\_counter = 0 Then 'Initialize values for Bonus Section

'Debug.Print "In Initial Bonus Counter Loop"

Greatest\_increase = ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value 'Percent\_change

Greatest\_increase\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

Greatest\_decrease = ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value 'Percent\_change

Greatest\_decrease\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

Greatest\_total\_volume = ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 12).Value

Greatest\_total\_volume\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

Initial\_bonus\_counter = Initial\_bonus\_counter + 1

'Debug.Print "Greatest\_increase, Greatest\_decrease, Greatest\_total\_volume", Greatest\_increase, Greatest\_decrease, Greatest\_total\_volume

Else 'Determine Greatest values for Bonus Section

If Greatest\_increase < ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value Then

Greatest\_increase = ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value 'Percent\_change

Greatest\_increase\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

End If

If Greatest\_decrease > ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value Then

Greatest\_decrease = ActiveWorkbook.Worksheets(I).Cells(Tickers\_in\_ws, 11).Value 'Percent\_change

Greatest\_decrease\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

End If

If Greatest\_total\_volume < Total\_volume Then

Greatest\_total\_volume = Total\_volume

Greatest\_total\_volume\_ticker = ActiveWorkbook.Worksheets(I).Cells(J, 1).Value

End If

Initial\_bonus\_counter = Initial\_bonus\_counter + 1

'Debug.Print "Greatest\_increase, Greatest\_decrease, Greatest\_total\_volume", Greatest\_increase, Greatest\_decrease, Greatest\_total\_volume

End If

Total\_volume = 0 'Reset Total\_volume for next stock ticker

Opening\_price = ActiveWorkbook.Worksheets(I).Cells(J + 1, 3).Value 'Set starting price for next ticker

Tickers\_in\_ws = Tickers\_in\_ws + 1

End If

Next J

ActiveWorkbook.Worksheets(I).Range("J2:J" & Tickers\_in\_ws).NumberFormat = "0.00" 'Set column J format to Number

ActiveWorkbook.Worksheets(I).Range("K2:K" & Tickers\_in\_ws).NumberFormat = "0.00%" 'Set column K format to %

ActiveWorkbook.Worksheets(I).Range("L:L").Columns.AutoFit 'Set column L width to Autofit

ActiveWorkbook.Worksheets(I).Cells(2, 15).Value = "Greatest % Increase" 'Greatest Increase Label For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(3, 15).Value = "Greatest % Decrease" 'Greatest Decrease Label For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(4, 15).Value = "Greatest Total Volume" 'Greatest Total Volume Label For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(2, 16).Value = Greatest\_increase\_ticker 'Greatest Increase Ticker For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(3, 16).Value = Greatest\_decrease\_ticker 'Greatest Decrease Ticker For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(4, 16).Value = Greatest\_total\_volume\_ticker 'Greatest Total Volume Ticker For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(2, 17).Value = Greatest\_increase 'Greatest Increase For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(3, 17).Value = Greatest\_decrease 'Greatest Decrease For Bonus Section

ActiveWorkbook.Worksheets(I).Cells(4, 17).Value = Greatest\_total\_volume 'Greatest Total Volume For Bonus Section

ActiveWorkbook.Worksheets(I).Range("O:O").Columns.AutoFit 'Set column O width to Autofit For Bonus Section

ActiveWorkbook.Worksheets(I).Range("Q2:Q3").NumberFormat = "0.00%" 'Set to % For Bonus Section

'ActiveWorkbook.Worksheets(I).Range("Q4:Q4").NumberFormat = "0" 'Set to Number For Bonus Section

Tickers\_in\_ws = 2 'Reset Tickers\_in\_ws to start in second row

Initial\_bonus\_counter = 0 'Intialize counter for Bounus section

Next I

'Debug.Print "Program Ended", Format(Now, "mm/dd/yyyy HH:mm:ss")

End Sub

**Screenshot with some of the versions of my Excel work (if needed)**

Graphical user interface, application

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